Title: **Water Grab Sample Collection**

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1.0 OBJECTIVE

To collect a water grab sample

2.0 HEALTH AND SAFETY

Personnel should be aware that this procedure requires traversing in mud and water, traveling in boats, and lifting containers filled with water. Personnel should wear hipboots, chestwaders or wetsuit with boots depending on water depth or preference of the wearer and lifejacket if traveling in boat. Personnel should know how to swim and posess the ability to do so.

3.0 PERSONNEL/TRAINING/RESPONSIBILITIES

Any employee who routinely works in the laboratory and is able to walk in mud and water, travel in a boat, and lift objects that could be heavy should be capable of performing this task. Training of new staff should be carried out under supervision of an experienced technical employee familiar with this SOP before the employee can work unsupervised.

4.0 REQUIRED AND RECOMMENDED MATERIALS

- Hipboots
- Chestwaders
- Wet suit with boots
- Life jacket
- Cooler
- Stainless Steel cannister
- Glass Jars
- Blue Ice

5.0 PROCEDURE

5.1 Water Grab Sample Collection

1. When at the collection site, fill a portion of container (cleaned stainless steel cannister or glass jar , SOP #) with site water, swirl and dump. Repeat two times.

2. Fill container with desired amount of water, **upstream of dumped water**, and keep cool for transport back to lab.

3. Containers must labeled with name of project, date, time, location of collection, and type of analysis/test needed.

4. When at the lab, containers should be kept cool until ready for analysis.

6.0 QUALITY CONTROL/QUALITY ASSURANCE

Personnel should adhere to good laboratory practices while collecting water. Collection should always be performed with proper precautions when lifting water, traversing through mud and water, and traveling by boat.

7.0 REFERENCES

DeWoskin, R.S. 1984. Good laboratory practice regulations: a comparison. Research Triangle Institute, Research Triangle Park, North Carolina. 63 pp.

USEPA. 1979. Good laboratory practice standards for health effects. Part 772 - Standards for development of test data. Fed. Reg. 44:27362-27375, May 9, 1979.

USEPA. 1980. Physical, chemical, persistence, and ecological effects testing; good laboratory practice standards (proposed rule). 40 CFR 772, Fed. Reg. 45:77353-77365. November 21, 1980.